

Application No. 10/600,552  
Amendment Dated August 16, 2004  
Reply to Office Action of May 19, 2004

**AMENDMENTS TO THE CLAIMS**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

Claim 1 (currently amended).        A fragmentation-resistant instrument panel for use in a vehicle comprising:

(a)        an outer layer having an inner surface,

(b)        a core of expanded plastic of a predetermined shape and having an inner surface, said core secured to said inner surface of said outer layer, and

(c)        an inner layer film having an inner surface fixedly secured to a substantial portion of said inner surface of said core to thereby at least partially encapsulate said expanded plastic foam between it and said outer layer,

whereby said instrument panel will be resistant to fragmentation in the event that an impact force is applied to said inner layer.

Claim 2 (original). The fragmentation-resistant instrument panel of Claim 1 wherein said expanded plastic foam comprises a plurality of small polypropylene beads that are joined to one another by the application of heat thereto.

Application No. 10/600,552  
Amendment Dated August 16, 2004  
Reply to Office Action of May 19, 2004

Claim 3 (original). The fragmentation-resistant instrument panel of Claim 1, wherein said outer layer comprises a material selected from the group consisting of textiles, thermoplastic polyolefins and polyvinylchloride.

Claim 4 (original). The fragmentation-resistant instrument panel of Claim 2, wherein said outer layer comprises a material selected from the group consisting of textiles, thermoplastic polyolefins and polyvinylchloride.

Claim 5 (original). The fragmentation-resistant instrument panel of Claim 1, wherein said outer layer comprises a laminate having an inner ply comprising a material selected from the group consisting of cross-linked polypropylene, cross-linked polyethylene, polyurethane, thermoplastic polyolefin, and polypropylene.

Claim 6 (original). The fragmentation-resistant instrument panel of Claim 2 wherein said outer layer comprises a laminate having an inner ply comprising a material selected from the group consisting of cross-linked polypropylene, cross-linked polyethylene, polyurethane, thermoplastic polyolefin, and polypropylene.

Claim 7 (original). The fragmentation-resistant instrument panel of Claim 3 wherein said outer layer comprises a laminate having an inner ply comprising a material selected from the group

Application No. 10/600,552  
Amendment Dated August 16, 2004  
Reply to Office Action of May 19, 2004

consisting of cross-linked polypropylene, cross-linked polyethylene, polyurethane, thermoplastic polyolefin, and polypropylene.

Claim 8 (original). The fragmentation-resistant instrument panel of Claim 4 wherein said outer layer comprises a laminate having an inner ply comprising a material selected from the group consisting of cross-linked polypropylene, cross-linked polyethylene, polyurethane, thermoplastic polyolefin, and polypropylene.

Claim 9 (original). The fragmentation-resistant instrument panel of Claim 1, wherein the outer layer is a bilaminate.

Claim 10 (original). The fragmentation-resistant instrument panel of Claim 1, wherein the outer layer is a trilaminate.

Claim 11 (original). The fragmentation-resistant instrument panel of Claim 1, additionally comprising an expandable air bag forming a portion of a supplemental restraint system mounted adjacent said inner layer.

Claim 12 (original). The fragmentation-resistant instrument panel of Claim 1, wherein the inner layer is a thermoplastic film material.

Application No. 10/600,552  
Amendment Dated August 16, 2004  
Reply to Office Action of May 19, 2004

Claim 13 (original). The fragmentation-resistant instrument panel of Claim 1, wherein the inner layer is reinforced with one or more textiles.

Claim 14 (withdrawn). A method of manufacturing a fragmentation-resistant instrument panel for use in a vehicle, comprising the steps of:

- (a) providing an outer layer having an inner surface;
- (b) molding a plurality of plastic beads into an expanded plastic foam core of a predetermined shape and having an inner surface;
- (c) securing the core of expanded plastic foam to the inner surface of the outer layer; and
- (d) fixedly securing an inner layer of material onto the inner surface of the core, to thereby at least partially encapsulate the expanded plastic foam between it and the outer layer; whereby the instrument panel will be resistant to fragmentation in the event that an impact force is applied to the inner layer.

Claim 15 (withdrawn). The method of Claim 14, wherein the step of molding a plurality of plastic beads into an expanded plastic foam comprises molding a plurality of small polypropylene beads that are joined to one another by the application of heat thereto.

Application No. 10/600,552  
Amendment Dated August 16, 2004  
Reply to Office Action of May 19, 2004

Claim 16 (withdrawn). The method of Claim 14, wherein the step of molding a plurality of plastic beads into an expanded plastic foam comprises molding a plurality of small polypropylene beads that are joined to one another in a steam chest molding process.

Claim 17 (withdrawn). The method of Claim 14, wherein the steps of molding a plurality of plastic beads into an expanded plastic foam core, securing the core of expanded plastic foam to the inner surface of the outer layer, and fixedly securing an inner layer of material onto the inner surface of the core, occur in a single step using a steam chest molding process.

Claim 18 (withdrawn). The method of Claim 14, wherein the step of providing the outer layer comprises providing a material selected from the group consisting of textiles, thermoplastic polyolefins and polyvinylchloride.

Claim 19 (withdrawn). The method of Claim 15, wherein the step of providing the outer layer comprises providing a material selected from the group consisting of textiles, thermoplastic polyolefins and polyvinylchloride.

Claim 20 (withdrawn). The method of Claim 16, wherein the step of providing the outer layer comprises providing a material selected from the group consisting of textiles, thermoplastic polyolefins and polyvinylchloride.

Application No. 10/600,552  
Amendment Dated August 16, 2004  
Reply to Office Action of May 19, 2004

Claim 21 (withdrawn). The method of Claim 17, wherein the step of providing the outer layer comprises providing a material selected from the group consisting of textiles, thermoplastic polyolefins and polyvinylchloride.

Claim 22 (withdrawn). The method of Claim 14, wherein the step of providing the outer layer comprises providing a laminate having an inner ply comprising a material selected from the group consisting of cross-linked polypropylene, cross-linked polyethylene, polyurethane, thermoplastic polyolefin, and polypropylene.

Claim 23 (withdrawn). The method of Claim 15, wherein the step of providing the outer layer comprises providing a laminate having an inner ply comprising a material selected from the group consisting of cross-linked polypropylene, cross-linked polyethylene, polyurethane, thermoplastic polyolefin, and polypropylene.

Claim 24 (withdrawn). The method of Claim 16, wherein the step of providing the outer layer comprises providing a laminate having an inner ply comprising a material selected from the group consisting of cross-linked polypropylene, cross-linked polyethylene, polyurethane, thermoplastic polyolefin, and polypropylene.

Application No. 10/600,552  
Amendment Dated August 16, 2004  
Reply to Office Action of May 19, 2004

Claim 25 (withdrawn). The method of Claim 17, wherein the step of providing the outer layer comprises providing a laminate having an inner ply comprising a material selected from the group consisting of cross-linked polypropylene, cross-linked polyethylene, polyurethane, thermoplastic polyolefin, and polypropylene.

Claim 26 (withdrawn). The method of Claim 18, wherein the step of providing the outer layer comprises providing a laminate having an inner ply comprising a material selected from the group consisting of cross-linked polypropylene, cross-linked polyethylene, polyurethane, thermoplastic polyolefin, and polypropylene.

Claim 27 (withdrawn). The method of Claim 19, wherein the step of providing the outer layer comprises providing a laminate having an inner ply comprising a material selected from the group consisting of cross-linked polypropylene, cross-linked polyethylene, polyurethane, thermoplastic polyolefin, and polypropylene.

Claim 28 (withdrawn). The method of Claim 18, wherein the step of providing the outer layer comprises providing a laminate having an inner ply comprising a material selected from the group consisting of cross-linked polypropylene, cross-linked polyethylene, polyurethane, thermoplastic polyolefin, and polypropylene.

Application No. 10/600,552  
Amendment Dated August 16, 2004  
Reply to Office Action of May 19, 2004

Claim 29 (withdrawn). The method of Claim 19, wherein the step of providing the outer layer comprises providing a laminate having an inner ply comprising a material selected from the group consisting of cross-linked polypropylene, cross-linked polyethylene, polyurethane, thermoplastic polyolefin, and polypropylene.

Claim 30 (withdrawn). The method of Claim 14, further including a step of providing an expandable air bag forming a portion of a supplemental restraint system mounted adjacent the inner layer.

Claim 31 (withdrawn). The fragmentation-resistant instrument panel of Claim 14, wherein the outer layer is a bilaminate.

Claim 32 (withdrawn). The fragmentation-resistant instrument panel of Claim 14, wherein the outer layer is a trilaminate.

Claim 33 (withdrawn). The fragmentation-resistant instrument panel of Claim 14, wherein the inner layer is a thermoplastic film material.

Claim 34 (withdrawn). The fragmentation-resistant instrument panel of Claim 14, wherein the inner layer is reinforced with one or more textiles.

Application No. 10/600,552  
Amendment Dated August 16, 2004  
Reply to Office Action of May 19, 2004

**AMENDMENTS TO THE DRAWINGS**

The attached sheet of drawings includes changes to FIG. 4. This sheet, which includes FIG. 4, replaces the original sheet including FIG. 4.

Attachment: Replacement Sheet (Annotated Sheet Showing Changes)